

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard HULL, et al.) Re: Information Disclosure
Statement
Serial No.: 10/635,940) Group: 2681
)
) Examiner: not yet assigned
Filed: August 5, 2003)
) Our Ref: B-5192 621141-3
For: "METHOD AND APPARATUS FOR)
PROVIDING INFORMATION ABOUT) Date: February 13, 2004
A REAL-WORLD SPACE"

Commissioner for Patents
P.O. Box 1450
Alexandria VA, 22313-1450

Sir:

In accordance with the Applicants' duty to disclose information which may be material to the examination of this application, the undersigned respectfully requests that the Examiner consider on the merits the documents listed on the enclosed Form PTO-1449 (modified) before issuing the first Office Action on the merits. Copies of the foreign patent documents and the non-patent publications listed on the enclosed Form PTO-1449 (modified) are enclosed herewith for the Examiner's convenience. Copies of the U.S. patent documents listed on the enclosed Form PTO-1449 (modified) are not enclosed, pursuant to Deputy Commissioner Stephen G. Kunin's Pre OG Notice dated July 11, 2003.

The documents listed on the enclosed Form PTO-1449 (modified) include those cited in the European Search Report for the corresponding European Patent Application No. 03254623.6 (3 pages), which was mailed on November 13, 2003 and European Patent Application No. 03254622.8 (3 pages), which was mailed on November 20, 2003. A copy of each search report is enclosed herewith.

The documents listed on the enclosed Form PTO-1449 (modified) include those cited in the United Kingdom Search Report for the corresponding United Kingdom Patent Application No. GB 0317289.7. (1 page), United Kingdom Patent Application No. GB 0317290.5 (1

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page), and United Kingdom Patent Kingdom Application No. 0317295.4 (1 page). A copy of each search report is enclosed herewith.

French Document No. 2 711 001 is not in English. A concise English-language explanation of the relevance of French Document No. 2 711 001 can be found in the enclosed English-language abstract.

French Document No. 2 793 580 is not in English. A concise English-language explanation of the relevance of French Document No. 2 793 580 can be found in the enclosed English-language abstract.

Japanese Document No. 4-303213 is not in English. A concise English-language explanation of the relevance of Japanese Document No. 4-303213 can be found in the enclosed English-language abstract.

Japanese Document No. 11-096230 is not in English. A concise English-language explanation of the relevance of Japanese Document No. 11-096230 can be found in the enclosed English-language abstract.

Japanese Document No. 11-202759 is not in English. A concise English-language explanation of the relevance of Japanese Document No. 11-202759 can be found in the enclosed English-language abstract.

WIPO International Publication No. 99/67904 is not in English. A concise English-language explanation of the relevance of WIPO International Publication No. 99/97904 can be found in the enclosed English-language partial translation.

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WIPO International Publication No. 02/06771 A1 is not in English. A concise English-language explanation of the relevance of WIPO International Publication No. 02/06771 A1 can be found in the enclosed English-language abstract.

It should be noted that the above-identified application may be related by subject matter to the following U.S. Application(s): 10/635,939, filed on August 5, 2003; 10/635,938, filed August 5, 2003. Pursuant to 37 C.F.R. 1.56(a) and M.P.E.P. 2004, paragraph 9, the applicant brings these co-pending applications to the attention of the Examiner. The Examiner should consider this information during the prosecution of the above-identified application. However, citation of these applications does not constitute an admission that the claims of the present application are substantially similar or similar to those of the applications listed above.

The filing of this Information Disclosure Statement (IDS) shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The Applicants believe that this IDS is being submitted before the issuance of a first Office Action on the merits and before the issuance of a Final Rejection or Notice of Allowance. Therefore, no official fees should be due; and this IDS should be considered on the merits. If this IDS is being submitted after the issuance of the first Office Action on the merits and before the issuance of a Final Rejection or Notice of Allowance, please contact the undersigned to authorize a payment of \$180.00 (or any other required amount), which is the fee set forth in 37 C.F.R. §



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LIST OF PATENTS AND PUBLICATIONS STATEMENT	APPLICANT(S) Richard HULL, et al.	
	FILING DATE August 5, 2003	GROUP 2681

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE or 102(e) DATE IF APPROPRIATE
	5,543,797	8/1996	Hochstein et al.	342	42	
	6,295,454 B1	9/2001	Havinis et al.	455	456	
	2002/0062251 A1	5/2002	Anandan et al.	705	14	
	2002/0165731 A1	11/2002	Dempsey	705	1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	0 498 655 A2	8/1992	EP			
	2 711 001	4/1995	FR			abstract
	2 793 580	11/2000	FR			abstract
	2 322 248	8/1998	GB			
	4-303213	10/1992	JP			abstract
	11-096230	4/1999	JP			abstract
	11-202759	7/1999	JP			abstract
	02/06771 A1	1/2002	WO			abstract
	99/67904 A1	12/1999	WO			partial

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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	FILING DATE August 5, 2003	GROUP 2681

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Bederson, B.B., "Audio Augmented Reality: A Prototype Automated Tour Guide," ACM Human Computer in Computing Systems conference (CHI '95), pp 210-211, INTERNET: < http://www.cs.umd.edu/~bederson/papers/chi-95-aar/index.html > 4 pages total (February 2, 2002).
Brueckner, S.A., "An Analytic Approach to Pheromone-Based Coordination," Fourth IEEE International Conference, Boston, pp.369-370 (2000).
"DARPA ITO Sponsored Research: Pheromone Robotics," INTERNET: < http://www.darpa.mil/ito/psum2001/H892-0.html > 3 pages total (February 26, 2002).
Dorigo, M., et al., "Ant colonies for the traveling salesman problem," BioSystems, pp 1-10 (1997).
"Learning's in the air: museums, microcosms, and the future of the mobile net," Mpulse: A Cooltown Magazine, INTERNET: < http://www.cooltown.com/mpulse/0901-museums.asp?print=yes > 3 pages total (March 13, 2002).
Payton, D., et al., "Pheromone Robotics," Autonomous Robots, Kluwer Academic Publishers, Netherlands, pp. 319-324 (2001).
Payton, D., et al., "Pheromone Robotics," HRL Laboratories, 32 pages total.
Payton, D., et al., "Progress in Pheromone Robotics," HRL Laboratories, 9 pages total (2001).
Russell, R.A., "Assoc. Prof. Andy Russell," INTERNET: < http://www.ecse.monash.edu.au/staff/rar/ > 5 pages total (August 5, 2002).
Spasojevic, M., et al., "A Study of an Augmented Museum Experience," 6. pages total.
Subing, Z., et al., "A QoS Routing Algorithm Based on Ant Algorithm," IEEE International Conference on Communications, Finland, Vol. 1, pp. 1581-1585 (2001).

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

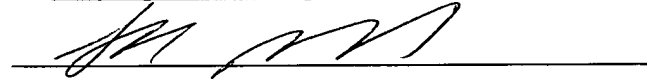
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1.97(c), if the Examiner believes that such a fee is due in order for this IDS to be considered on the merits.

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. (Notice of January 9, 1992, 1135 O.G. 13-25, at 25.)

The person making this statement is the practitioner who signs below on the basis of information supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)) and on the basis of information in the practitioner's file.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to the "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450", on February 13, 2004 by Shana Morda.



Respectfully submitted,



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Enclosures: Form PTO-1449 (modified) (2 pages)
Copy of Search Report for EP 03254622.8 (3 pages)
Copy of Search Report for EP 03254623.6 (3 pages)
Copy of Search Report for GB 0317289.7 (1 page)
Copy of Search Report for GB 0317290.5 (1 page)
Copy of Search Report for GB 0317295.4 (1 page)
Copy of Non-U.S. Patent documents listed on Form PTO-1449 (modified)